

AWIPS Authorization File Problem in CRS Build 11.0

AWIPS "offset IP" sites have incorrect AWIPS processor IP addresses in the CRS AWIPS Authorization File. Consequently, those sites will be checking some other site's AWIPS processors to see if the AWIPS/CRS interface is up.

DETAILS: Because AWIPS processors were changing, we needed to come up with a better way of checking AWIPS processors connectivity to make sure the AWIPS/CRS interface was up. This was done in CRS patch 10.0.1 with the introduction of the AWIPS Authorization File (/crs/data/SS/CRS_config.xml), which contains a list of 6 AWIPS processors that CRS checks at initialization and every 30 minutes thereafter to make sure the AWIPS/CRS interface is up. The 6 processors and their IP addresses follow:

PX1 = 165.92.xxx.7
PX2 = 165.92.xxx.8
DX1 = 165.92.xxx.3
DX2 = 165.92.xxx.4
DS1 = 165.92.xxx.5
DS2 = 165.92.xxx.6

The 10.0.1 patch included logic to generate the correct IP addresses for each of the AWIPS processors in the AWIPS Authorization File at each CRS site. This continues to work correctly at Build 11 sites.

The problem involves the 11 "offset IP" sites. Because AWIPS does not have enough address space, there are 11 pairs of CRS sites that share a node address (165.92.xxx). The "offset IP" sites have 130 added to all their node IP addresses, so for example, OMP IP = 165.92.xxx.241 instead of 165.92.xxx.111. Their AWIPS Authorization Files would have the following:

PX1 = 165.92.xxx.137
PX2 = 165.92.xxx.138
DX1 = 165.92.xxx.133
DX2 = 165.92.xxx.134
DS1 = 165.92.xxx.135
DS2 = 165.92.xxx.136

The 10.0.1 patch included logic to add the 130 offset to the IP addresses where required for the 11 sites. However, this logic was mistakenly left out of the post install script for CRS Build 11 (TTR 959). Therefore, the IP addresses for the AWIPS processors at these 11 sites are actually the IP addresses for 11 different sites. These are the 11 "offset IP" sites:

CR = BOU FSD LBF TOP UNR

ER = ILM

SR = KEY(EYW) SJU

WR = BYZ GGW TFX

Solution: Sites must manually edit their /crs/data/SS/CRS_config.xml files on both 0MP and 5MP. Sites already running Build 11 should stop and restart the CRS application after the edits are completed. Sites that have yet to install Build 11 must manually edit the file immediately following Part 6 (CRS Software Installation) of Software Note 11. This is a permanent change, but if these sites need to re-install the CRS software, usually only because of a hard drive replacement, they must manually edit it again. The problem will be permanently corrected in Build 12.